



7-16 DIN Female for 3/8 in FSJ2 and PTS2 cable

Product Classification

| | |
|---------------------|----------------------------------|
| Brand | HELIAX® |
| Product Type | Wireless and radiating connector |

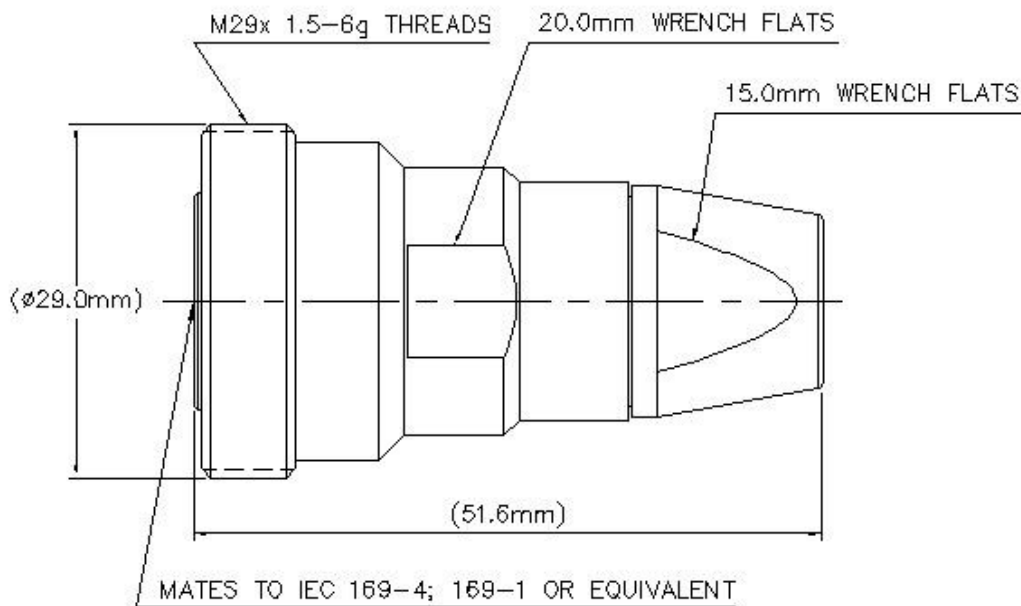
General Specifications

| | |
|-----------------------|-----------------|
| Interface | 7-16 DIN Female |
| Body Style | Straight |
| Mounting Angle | Straight |

Electrical Specifications

| | |
|---|----------------------|
| Connector Impedance | 50 ohm |
| Operating Frequency Band | 0 – 6000 MHz |
| Cable Impedance | 50 ohm |
| 3rd Order IMD, typical | -112 dBm @ 910 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| RF Operating Voltage, maximum (vrms) | 813.00 V |
| dc Test Voltage | 2300 V |
| Outer Contact Resistance, maximum | 1.50 mOhm |
| Inner Contact Resistance, maximum | 0.40 mOhm |
| Insulation Resistance, minimum | 10000 MOhm |
| Average Power | 0.7 kW @ 900 MHz |
| Peak Power, maximum | 13.20 kW |
| Shielding Effectiveness | -110 dB |

Outline Drawing



Mechanical Specifications

| | |
|--|-------------------------|
| Outer Contact Attachment Method | Compression |
| Inner Contact Attachment Method | Captivated |
| Outer Contact Plating | Silver |
| Inner Contact Plating | Silver |
| Interface Durability | 500 cycles |
| Interface Durability Method | IEC 61169-4:17 |
| Connector Retention Tensile Force | 670 N 151 lbf |
| Connector Retention Torque | 2.70 N-m 1.99 ft lb |
| Insertion Force | 889.64 N 200.00 lbf |
| Insertion Force Method | IEC 61169-16:9.3.5 |
| Pressurizable | No |
| Coupling Nut Proof Torque | 35.00 N-m 25.81 ft lb |
| Coupling Nut Proof Torque Method | IEC 61169-16:9.3.11 |
| Coupling Nut Retention Force | 1000.00 N 224.81 lbf |
| Coupling Nut Retention Force Method | IEC 61169-17:9.3.11 |

Dimensions

Nominal Size 3/8 in

| | |
|-----------------|--------------------|
| Diameter | 28.95 mm 1.14 in |
| Height | 28.95 mm 1.14 in |
| Length | 51.60 mm 2.03 in |
| Weight | 107.47 g 0.24 lb |
| Width | 28.95 mm 1.14 in |

Environmental Specifications

| | |
|--|---------------------------------------|
| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
| Storage Temperature | -65 °C to +125 °C (-85 °F to +257 °F) |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Moisture Resistance Test Method | IEC 60068-2-3 |
| Mechanical Shock Test Method | IEC 60068-2-27 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |
| Corrosion Test Method | IEC 60068-2-11 |

Standard Conditions

| | |
|---|-----------------|
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C 212 °F |

Return Loss/VSWR

| Frequency Band | VSWR | Return Loss (dB) |
|-----------------------|-------------|-------------------------|
| 0–2000 MHz | 1.07 | 30.00 |

Regulatory Compliance/Certifications

| Agency | Classification |
|----------------------------|--|
| RoHS 2011/65/EU | Compliant by Exemption |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| China RoHS SJ/T 11364-2014 | Above Maximum Concentration Value (MCV) |



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours